OPERATING MANUAL

Hausted® Converge Hydraulic Stretcher
Model 472

(08/30/06) **069180**

A WORD FROM STERIS CORPORATION

This manual contains important information on proper use and maintenance of the Converge Hydraulic Stretcher. **All personnel involved in the use and maintenance of this equipment must carefully review and comply with the warnings, cautions and instructions contained in this manual.** These instructions are important to protect the health and safety of personnel operating a Converge Hydraulic Stretcher and should be retained in a conveniently accessible area for quick reference.

Complete instructions for uncrating and connecting utilities, as well as equipment drawings, have been furnished. If missing, contact STERIS for replacement copies, giving the serial number and model numbers of the unit.

STERIS carries a complete line of accessories for use with this stretcher. A STERIS representative will gladly review these with you.

Indications for Use

The Hausted® Converge Hydraulic Stretcher is intended for use in patient OB-GYN applications, as well as emergency treatment, transport or recovery.

Service Information

A thorough preventive maintenance program is essential to safe and proper unit operation. This manual contains maintenance schedules and procedures which should be followed for satisfactory equipment performance.

You are encouraged to contact STERIS concerning our comprehensive Annual Maintenance Agreements. Under the terms of these agreements, preventive maintenance, adjustments, and replacement of worn parts are done on a scheduled basis to assure equipment performance at peak capability and to help avoid untimely or costly interruptions. STERIS maintains a global staff of well equipped, factory-trained technicians to provide this service, as well as expert repair services. Please contact your STERIS representative for details.

Advisory

A listing of the safety precautions to be observed when operating and servicing this equipment can be found in Section 1 of this manual. Do not operate or service the equipment until you have become familiar with this information.

Any alteration of this equipment not authorized or performed by STERIS Engineering Service which could affect its operation will void the warranty, could adversely affect use, could violate national, state, and local regulations, and could jeopardize your insurance coverage.

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Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or oxygen or nitrous oxide.

STERIS Corporation, Montgomery, Alabama is an ISO 13485 certified facility.

The base language of this document is ENGLISH. Any translations must be made from the base language document.

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LISTING OF WARNINGS AND CAUTIONS

1

The following *Safety Precautions* must be observed when operating or servicing this Hausted® Converge Hydraulic Stretcher. WARNING indicates the potential for personal injury and CAUTION indicates the potential for damage to equipment. For emphasis, certain *Safety Precautions* are repeated throughout the manual. It is important toreview ALL *Safety Precautions* before operating or servicing the unit.

Strictly following these *Safety Precautions* enhances your ability to safely and effectively utilize the unit and helpsthe customer avoid improper maintenance methods which may damage the unit or render it unsafe. It is importantto understand that these *Safety Precautions* are not exhaustive; customers are encouraged to develop their ownsafety policies and procedures to enhance and compliment these *Safety Precautions.*

WARNING–LACERATION HAZARD:

⚠ When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.

WARNINGS – PERSONAL INJURY HAZARD:

⚠ Do not sit on end – tipping may occur.

⚠ The fowler gas spring is only an assistant. The force that is required to lower and/or support the backrest may vary, depending on the patient size and position.

⚠ Never stand on the footrest.

⚠ Maximum patient weight capacity is 227 Kilograms (500 pounds).

⚠ Do not transport patient in chair configuration (tipping may occur).

WARNING – PROPER OPERATION HAZARD:

⚠ Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2" (13 mm) across the span of the stretcher.

UNPACKING INSTRUCTIONS

2

IMPORTANT: Report any shipping damage immediately! Inform shipper of any damages – leave carton intact. Leave the Converge Hydraulic Stretcher in the receiving area until inspection is complete.

Your Converge Hydraulic Stretcher has been carefully packaged at our manufacturing plant to ensure safe shipment to you medical facility. There are several procedures you must follow to put your new Converge Hydraulic Stretcher into service. These procedures only take a few minutes to complete and are required to ensure proper operation of the Converge Hydraulic Stretcher.

WARNING – LACERATION HAZARD: When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.

Step 1 – Cut the two bands around the shipping carton.

Step 2 – Remove the top half of the carton and cut one side of the bottom half.

Step 3 – Remove the Horizon Stretcher from the carton. Cut the bands from around the stretcher.

Step 4 – Check to see if all features of the stretcher work properly. If all features work properly, go to step 5. If any of the features of the Horizon Stretcher do not work properly, call STERIS for service.

Step 5 – Clean the Horizon Stretcher using a mild detergent to remove any dirt accumulated during shipment.

Step 6 – Place the stretcher into service.

3.1 Braking and Steering Operation

3.1.1 Applying The Brakes

The four wheel central braking system is activated by depressing the red pedal at any of the four corners of the unit (Figure 3-1). To fully engage the brakes, the pedal should be pressed to approximately 45°. All four caster wheels should be locked from swiveling and rotating.

Figure 3-1

3.1.2 Releasing The Brakes

Depress the green pedal at any of the four corners of the unit, until the pedal is in a horizontal position (Figure 3-2). All four wheels should rotate and swivel freely.

NOTE: *Brakes should always be activated when unit is not in transport.*

3.1.3 Applying The Steering Lock/Fifth Wheel

⚠ WARNING – PERSONAL INJURY HAZARD: Do not transport patient in chair configuration (tipping may occur).

⚠ WARNING – PROPER OPERATION HAZARD: Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2" (13 mm) across the span of the stretcher.

From any corner of the stretcher, depress the green pedal downward into the locked position. (Figure 3-3). Push the stretcher forward. Either one caster at the foot end will lock into a non-swivel mode, or the optional fifth wheel will lower and apply pressure to the floor. This allows straight steering by the attendant.

Figure 3-2

Figure 3-3

3.1.4 Releasing the Steering Lock/Fifth Wheel

Depress the red pedal at any of the four corners of the unit, until the pedal is in a horizontal position (Figure 3-2). All four wheels should rotate and swivel freely, and/or the optional fifth wheel will lift off the floor.

3.2 Litter Top Height Adjustment

3.2.1 Height Adjustment

Press the pump pedal to the floor (Figure 3-4), then release. Repeat this process until desired height is obtained. Use smooth strokes on pump pedal to ensure patient comfort.

Figure 3-4

3.2.2 Lowering Litter Top

Press down on the two release pedals at the same time (Figure 3-5) until desired height is obtained.

NOTE: *Do Not Stand On Release Pedals.*

Figure 3-5

3.2.3 Trendelenburg Adjustment

Place the unit at maximum height, see Section 3.2.1 *Height Adjustment*. Press down on the release pedal nearest the head end (Figure 3-6) until desired position is obtained then remove pressure.

Figure 3-6

3.2.4 Reverse Trendelenburg Adjustment

Place the unit at maximum height, see Section 3.2.1 *Height Adjustment*. Press down on the release pedal nearest the foot end (Figure 3-7) until desired position is obtained then remove pressure.

Figure 3-7

3.3 Fowler Backrest Operation

3.3.1 Raising the Fowler Backrest

Grasp the fowler frame tube on either corner of the fowler backrest frame tube (Figure 3-8). With fingertips, grasp the fowler gas spring activating handle (Figure 3-9). Slowly squeeze activating handle against the fowler frame tube. With the gas spring activated, adjust the fowler backrest to needed position. Once the required position is achieved, release the fowler activating handle, then release the fowler frame tube.

NOTE: *Depending on the patient's size, the force required to adjust the backrest may vary.*

Figure 3-8

Figure 3-9

Figure 3-10

3.3.2 Lowering the Fowler Backrest

> ⚠ **WARNING – PERSONAL INJURY HAZARD: The fowler gas spring is only an assistant. The force that is required to lower and/or support the backrest may vary, depending on the patient size and position.**

Grasp the fowler frame tube on either corner of the fowler backrest frame tube (Figure 3-10). With fingertips, grasp the fowler gas spring activating handle (Figure 3-9). Slowly squeeze activating handle against the fowler frame tube.

NOTE: *Be prepared to support the backrest if needed.*

With the gas spring activated, adjust fowler backrest to needed position (Figure 3-10). Once the required position is achieved, release the fowler activating handle, then release the fowler frame tube.

3.4 Retracto Rail Operation

3.4.1 Raising Rail to Full Height

Grasp the rail top cap at the center of the rail (Figure 3-11). Lift the rail all the way up (Figure 3-12). When the rail locks in the full upright position, you will hear a clicking sound. Check the rail lock by trying to return the rail to the previous position.

NOTE: *Be sure rail is locked securely before leaving patient.*

Figure 3-11

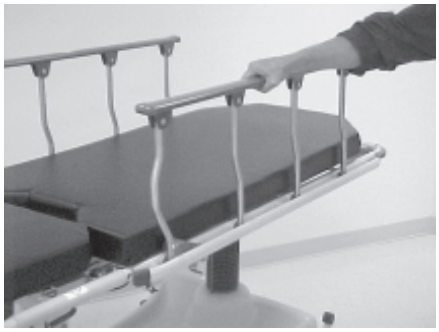

Figure 3-12

3.4.2 Raising Rail to Half Height

Grasp the rail top cap at the center of the rail (Figure 3-11). Slowly lift the rail approximately half way up (Figure 3-14). Stop lifting when you hear the rail lock click as it engages. Lower the rail slightly. Check the rail lock by trying to return the rail to the down position.

NOTE: *Be sure rail is locked securely before leaving patient.*

3.4.3 Lowering the Rail

Grasp the rail top cap at the center of the rail (Figure 3-12). With free hand, lift upward on the rail lock plate (Figure 3-13). Keep the lock plate lifted while lowering the rail until the half height lock is passed (Figure 3-14). Release lock plate and lower rail completely (Figure 3-11).

NOTE: *Never leave the patient unattended with the rail down.*

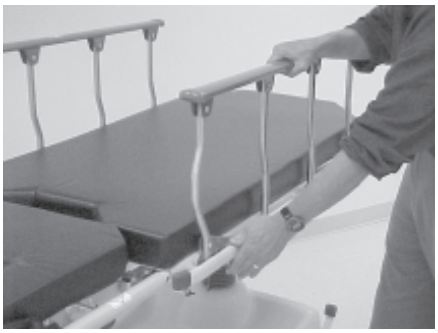

Figure 3-13

Figure 3-14

3.5 Foot Section Operation

3.5.1 Lowering the Foot Section

WARNING – PERSONAL INJURY HAZARD: Do not sit or stand on foot section – tipping may occur.

WARNING – PERSONAL INJURY HAZARD: Do not transport patient in chair configuration (tipping may occur).

Grasp the top frame tube and squeeze the foot section lock handle (Figure 3-15). Grasp the foot section lift handle and squeeze the activating handle with fingers (Figure 3-15). Push down on the foot section. Release the foot lock handle as soon as the foot section clears the foot locks (approximately 5 inches) (Figure 3-16). Adjust the foot section to the desired position (Figure 3-17), then release the foot section activating handle.

Figure 3-15

Figure 3-16

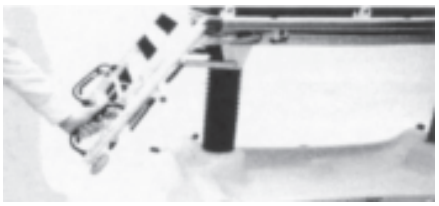

Figure 3-17

3.5.2 Returning to Stretcher Mode

Grasp the foot section lift handle and squeeze the activating handle with fingers (Figure 3-18). Lift the foot section all the way up, forcing it past the foot section locks (Figure 3-19).

Figure 3-18

Figure 3-19

3.6 Adjustable Footrest

3.6.1 Repositioning the Footrest

WARNING – PERSONAL INJURY HAZARD: Never stand on the footrest.

The footrest has three positions; retracted, lower and the upper positions. With the pan in the retracted position pull out on the handles on either side of the pan (Figure 3-20). The footrest will drop into the lower position (Figure 3-21). To place the footrest into the upper position, grasp the handles on both sides of the pan. Tilt the pan up while lifting (Figure 3-22). Once the pan is up all the way, tilt the pan out until it locks into position (Figure 3-23). To return the footrest into the retracted position, tilt the pan up while letting it slide down, if needed (Figure 3-22), into the lower position (Figure 3-20). Continue tilting the footrest until it is in the retracted position.

Figure 3-20

Figure 3-21

Figure 3-22

3.6.2 Leg Holder Operation (Optional Accessory)

Insert the accessory adapter into the accessory adapter well located under the litter top. Then tighten the well knob (Figure 3-24). Insert the leg holder rod into the accessory adapter (Figure 3-25). Adjust the height and the rotation required on the leg holder rod. Rotate the ball knob that is located on the accessory adapter, clock (Figure 3-26) locking the leg holder into position. Loosen the T-handle directly under leg holder (Figure 3-27). Adjust the leg holder to desired position and tighten the T-handle (Figure 3-28). To remove the leg holder simply reverse the order of the above instructions.

NOTE: *Accessory adapter should be removed before transporting unit.*

Figure 3-23

Figure 3-24

Figure 3-25

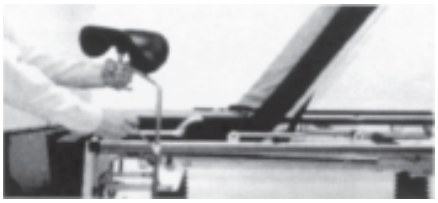

Figure 3-26

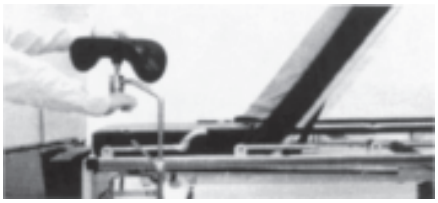

Figure 3-27

Figure 3-28

3.7 Foot Extension Operation
(Optional Accessory)

3.7.1 Extending Foot Extension

With left hand, reach under the foot section and support the foot extension (Figure 3-29). With right hand, turn the T-knob counterclockwise (Figure 3-28). Pull out on the extension and pivot it to the up position (Figure 3-30). Tighten the knob by turning it clockwise (Figure 3-31). Check to insure extension is locked in place by pressing down on it slightly.

Figure 3-29

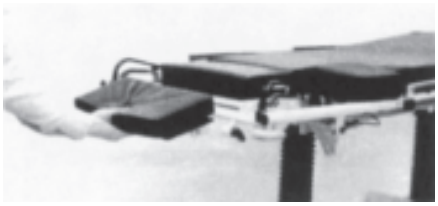

Figure 3-30

Figure 3-31

3.7.2 Retracting Foot Extension

With left hand, grasp the foot extension (Figure 3-31). Turn the T-knob counterclockwise (Figure 3-31). Rotate the foot extension under the foot section (Figure 3-32). Push the extension all the way up against the foot section and tighten the T-knob (Figure 3-29).

NOTE: *Be sure the foot extension is all the way retracted before lowering foot section.*

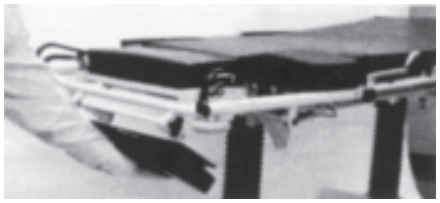

Figure 3-32

3.8 Heel Stirrup Operation

3.8.1 Extending the Heel Stirrup

Remove pad from in front of the heel stirrup (Figure 3-33). Grasp the heel stirrup assembly from under the liter top and pull out (Figure 3-34). After the heel stirrup has been extended out to the desired length, tighten T-knob on the slide tube under the side of the unit(Figure 3-36). Grasp heel stirrup and lift up (Figure 3-37). the heel stirrup can be moved side to side for adjustment (Figure 3-38). Loosen T-knob on top of the stirrup tube and adjust radial location of stirrup (Figure 3-39) then re-tighten T-knob.

NOTE: *If extended length is needed, the pin in the heel stirrup tube can be moved to gain four inches of extra extension (Figure 3-35). The pin must be replaced in one of the holes before using the heel stirrup.*

3.8.2 Retracting the Heel Stirrup

Simply reverse the above steps with the exception of the radial adjustment (Figure 3-39). the stirrup must be adjusted into a straight axis with the stirrup tube (Figure 3-38).

NOTE: *Do not raise the foot section with the heel stirrups extended.*

Figure 3-33

Figure 3-34

Figure 3-35

Figure 3-36

Figure 3-37

Figure 3-38

Figure 3-39

RECOMMENDED PREVENTIVE MAINTENANCE 4

Procedure	Schedule	Material
Lubricate all moving and sliding parts and hinge points.	6 Months	Lubricating oil, light-duty grease, wax stick lubricant or Never-Seez lubricant.
Inspect all fasteners to ensure proper fit, position and tightness (including nuts, bolts, etc.).	3 Months	Proper size wrench and screwdriver.
Cleaning mattresses and pads	Periodically	Medium strength cleaners, soap, and water. (DO NOT pressure clean or steam clean.)
Inspect all surfaces and remove any user developed sharp or burred areas. Apply touch-up paint where required.	Periodically	Metal file, proper color paint (specify color when ordering.
Clean external surface to remove blood, dirt, lint, and any other deposits.	Periodically	Medium strength anti-bacterial cleaners, stainless steel cleaner & polish.

NOTE: *If units are pressure washed or steam cleaned, lubrication of all hinging, moving, and sliding points should be done afterwards.*

For more details information, please contact:

STERIS Corporation at:

1-800-333-8828

OPTIONAL ACCESSORIES

5

Number	Description
000012-00	Restraint Straps With Buckle
000014-00	Restraint Straps With Velcro
000E17-00	I.V. Rod – 42" Stainless Steel
000018-00	Telescoping I.V. Rod 27" To 60" 2 Section, With Holder, Stainless
000C44-00	Drain Catch Basin – Stainless
00C16L-00	Knee Crutch Leg Holders
00C16M-00	Mounting Adapter Clamps For Knee Crutch Leg Holders
065180-00	Arm Board, Height Adjustable- Stainless Steel – 1" Pad
065366-00	Universal Patient Tray That Mounts To Side Rails
067221-00	Extension Head or Foot Board With Chart Holder
067225-00	Head Board With Chart Holder
075664-00	Self Storing Push Handles
068835-00	Head Board Monitor Shelf Ext. With Chart Holder
IVSTOW-00	Mobile I.V. Stand Attachment

RECOMMENDED REPLACEMENT PARTS

6

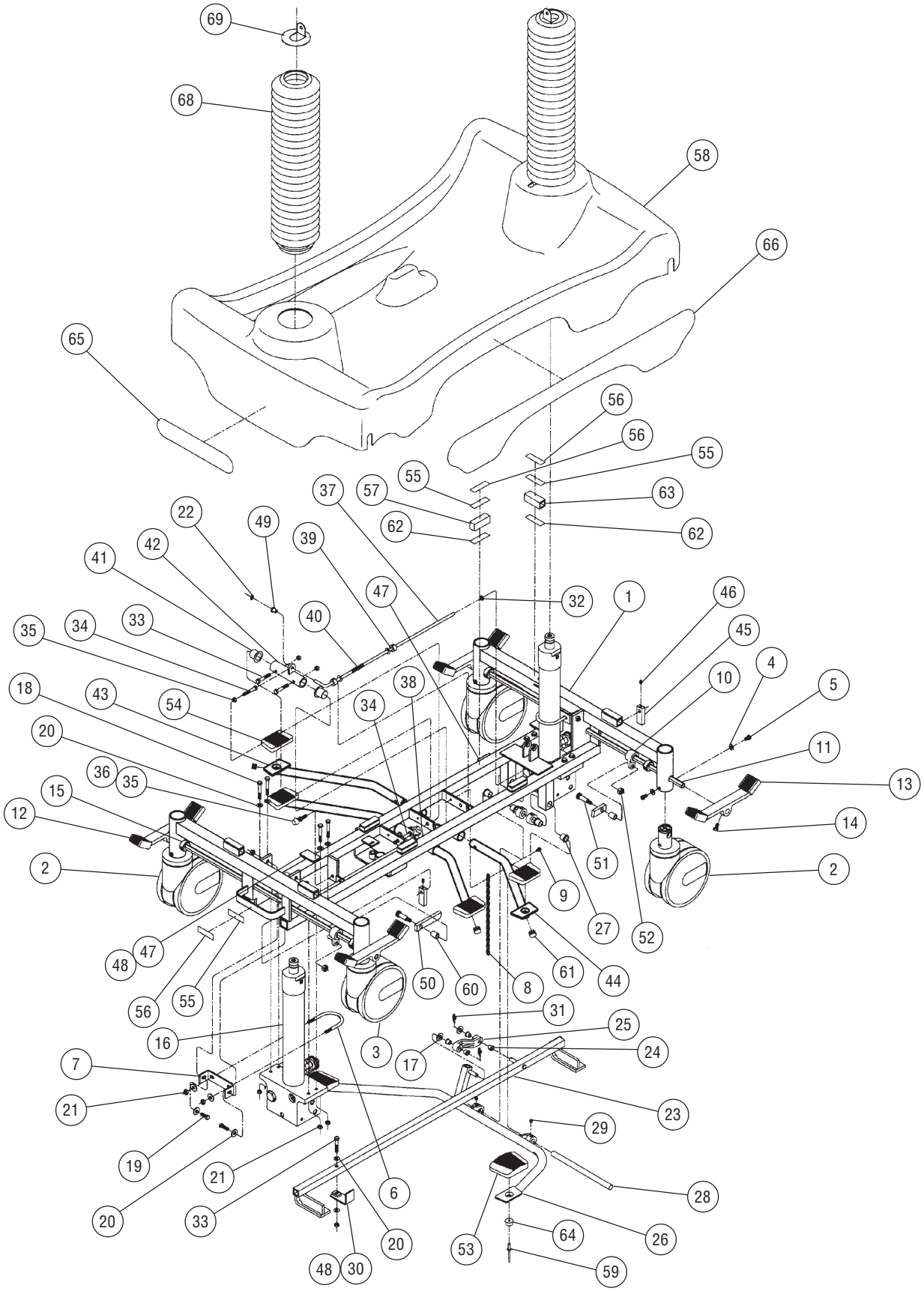

Figure 6-1. Model 472 Base Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-1-			**MODEL 472 BASE ASSEMBLY**	**X**
1	P 069026		ASSEMBLY, Short Base Frame	1
2	P 069018		CASTER, 6" Tente Twin, Brake	3
3	P 069019		CASTER, 6" Tente Twin, Swivel Lock	1
4	P 031090		WASHER, Internal Tooth Lock WASHER, 1/4"	8
5	P 069022		SCREW, Socket Head Cap, M6 x 1.0" X10.0" Long	8
6	P 068862		U-BOLT, Horizon Pump	2
7	P 068861		BRACKET, Horizon Pump Reservoir	2
8	P 062378		CHAIN, Anti-Static	1
9	P 031416		SCREW, Type “A” Self Tapping #10-24 x 1/2" Long	1
10	P 062684		LEVER, Cam	2
11	P 060008		ROD, Long Brake	2
12	P 069009		ASSEMBLY, Brake Pedal, Left	2
13	P 069010		ASSEMBLY, Brake Pedal, Right	2
14	P 031009		SCREW, Hex Head Cap, 5/16-18 x 1/2" Long	4
15	P 011422		COLAR, Worm	6
16	P 068850		ASSEMBLY, Pump Final	
17	P 035115		WASHER, Nylon, 5/16"	2
18	P 031412		SCREW, Hex Head Cap, 1/4 -20 x 1-3/4" Long	8
19	P 031137		SCREW, Hex Head Cap, 1/4-20 x 3/4" Long	4
20	P 031176		WASHER, USS Flat, 1/4"	22
21	P 031055		NUT, Lock, 1/4-20	21
22	P 031371		GRIPRING, .250"	2
23	P 069028		ASSEMBLY, Short Jack Link	1
24	P 068455		NYLINER, 5/16"	4
25	P 068371		CONNECTOR, Pedal To Link	1
26	P 068345		ASSEMBLY, Pump Pedal	1
27	P 068126		NYLINER, 1/2"	4
28	P 068379		BAR, Pump Pedal Hinge	1
29	P 031102		SCREW, Knurled Point Set, 1/4-20 x 1/4" Long	2
30	P 068355		GUIDE, Jack Link Vertical	1
31	P 068417		CLIP, Rue, 5/16"	2
32	P 068418		NYLINER, Type 2, 1/4"	2
33	P 031006		SCREW, Hex Head Cap, 1/4-20 x 1-1/2" long	2
34	P 031321		SCREW, Hex Head Cap, 1/4-20 x 2" Long	1
35	P 031054		NUT, Free Thread, 1/4-20"	3
36	P 066705		BUMPER, Stop	1
37	P 068374		LINK, Head End Release	1
38	P 069092		LINK, Short End Release	1
39	P 068378		COLLAR, Stop	4
40	P 068128		SPRING, Long, 1-17/32"	2
41	P 051308		NYLINER, 3/4"	4
42	P 068353		CONNECTOR, Release Pedal	2
43	P 068350		ASSEMBLY, Release Pedal, Left	2
44	P 068351		ASSEMBLY, Release Pedal, Right	2
45	P 068377		PLATE, Push	2
46	P 052041		SCREW, Set, #10-32 x 1/4" Long	2
47	P 068380		TAPE, Teflon, 3/4 x 1 1/2" Long	4
48	P 068381		TAPE, Teflon, 1/2 x 3/4" Long	3
49	P 068530		WASHER, Nylon Shoulder	2
50	P 069091		BAR, Short Brake Connecting	1
51	P 061157		BOLT, Shoulder, 3/8" x 1.00" Long	2
52	P 031057		NUT, Lock, 5/16-18	2

continued on next page

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-1-			**MODEL 472 BASE ASSEMBLY (CONTINUED)**	**X**
53	P 068343		PAD, Pump Pedal	2
54	P 061164		PAD, Release Pedal	4
55	P 068514		HOOK, Velcro, 2.0" x 5/8"	10
56	P 068512		PILE, Velcro, 2.0" x 5/8"	10
57	P 068376		SPACER, Cover	4
58	P 069030		COVER, Base, Model 4160	1
59	P 000794		RIVET, Pop, 3/16"	2
60	P 052274		SPACER	2
61	P 055620		PLUG, Hole	4
62	P 068475		TAPE, Double Sided, 2,0" x 1/2"	8
63	P 069212		TUBE, Cover Support	4
64	P 031156		GROMMET	2
65	P 069197		LABEL, Converge II End	2
66	P 069198		LABEL, Converge II Side, Right	1
67	P 069199		LABEL, Converge II Side, Left	1
68	P 068550		BELLOWS, Round	2
69	P 068583		PLATE, Bellows Top	2

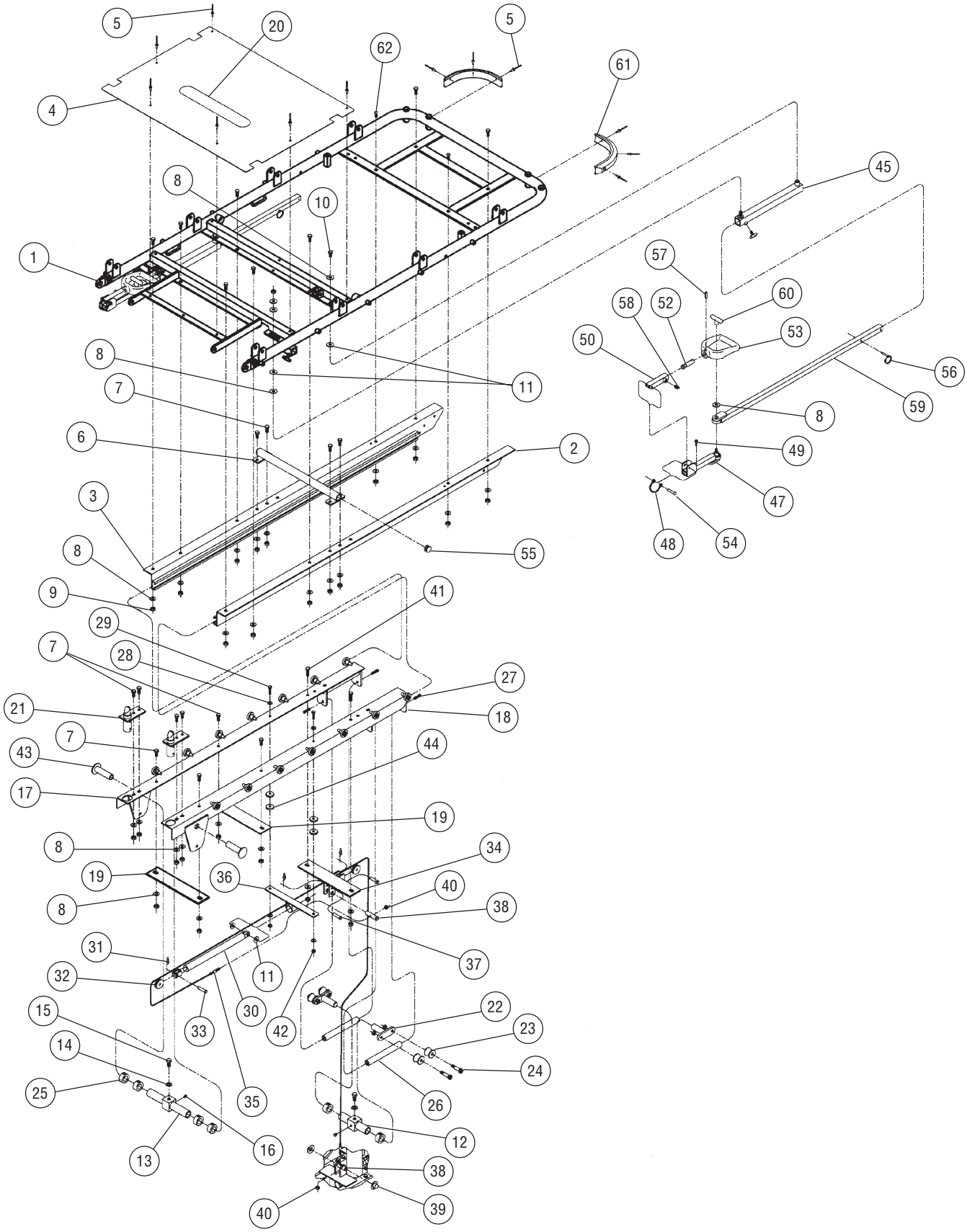

Figure 6-2. Model 472 Top Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-2-			**MODEL 472 TOP ASSEMBLY**	**X**
1	P 068756		ASSEMBLY, Welded Top	1
2	P 068776		ASSEMBLY, Top Angle, Right	1
3	P 068777		ASSEMBLY, Top Angle, Left	1
4	P 068760		SHEET, Seat Cover	1
5	P 069117		RIVET, Pop, 3/16"	18
6	P 069117		WELDMENT, Gas Spring Hinge	1
7	P 031010		SCREW, Hex Head Cap, 5/16-18 x 3/4" Long	22
8	P 031080		WASHER, Flat, 5/16"	24
9	P 003157		NUT, Lock, 5/16-18	24
10	P 031009		SCREW, Hex Head Cap, 5/16-18 x 1/2" Long	2
11	P 031000		WASHER, Nylon, 5/16" I.D.– 3/4" O.D.	8
12	P 069156		CROSSTUBE, Converge Head End	1
13	P 069157		CROSSTUBE, Converge Foot End	1
14	P 030923		WASHER, Lock, 3/8"	2
15	P 068519		SCREW, Hex Head Cap, 3/8-24 x 3/4" Long	2
16	P 031021		SCREW, Round Head Machine, 1/4-20 x 1/4" Long	2
17	P 068774		ASSEMBLY, Roller Angle, Right”	
18	P 068775		ASSEMBLY, Roller Angle, Left”	1
19	P 053090		PLATE, Top Support	2
20	P 031212		HOOK, Velcro, 2.00" x 12.00"	1
21	P 066674		ASSEMBLY, Foot Lock	2
22	P 069170		BRACKET, Short Roller Pivot	2
23	P 068465		ROLLER	4
24	P 061157		BOLT, Shoulder, 3/8" x 1.000" Long	4
25	P 068464		COLLAR, Stop, 3/4"	6
26	P 068463		TUBE, Roller Stop	2
27	P 031325		SCREW, Button Head Socket, 1/4-20 x 1.00" Long	4
28	P 031076		WASHER, USS Flat, 1/4"	4
29	P 031102		SCREW, Hex Head Cap, 1/4-20 x 1.00" Long	2
30	P 067242		CYLINDER, Gas	1
31	P 067246		CLIP, Rue, 5/16"	2
32	P 067241		WHEEL, Pulley	2
33	P 060018		PIN, Clevis	2
34	P 069336		ASSEMBLY, Pulley Support	1
35	P 068142		CABLE, Anti-Lift	1
36	P 068137		ASSEMBLY, Gas Spring Support	1
37	P 067244		PIN, Clevis	1
38	P 067232		SHAFT, Pivot	2
39	P 030290		NUT, Pal Cap, 1/2"	4
40	P 031054		NUT, Free Thread, 1/4-20	2
41	P 031012		SCREW, Hex Head Cap, 5/16-18 x 1.00" Long	2
42	P 068493		NUT, Lock, 1/4-20	2
43	P 068493		PLUG, Crosstube	2
44	P 061161		SPACER	4
45	P 068744		ASSEMBLY, Outer Slide, Right	1
46	P 068754		ASSEMBLY, Outer Slide, Left (Not Shown)	1
47	P 069124		ASSEMBLY, Heel Stirrup Hinge Arm	2
48	P 068761		HANDLE, Heel Stirrup	2
49	P 031420		SCREW, Self Tapping, #10-24	
50	P 069129		ASSEMBLY, Hinge Tube, Right	1
51	P 060128		ASSEMBLY, Hinge Hinge Tube, Left (Not Shown)	1
52	P 068762		PIN, Heel Stirrup	2

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FIG. & ITEM NO.	PART NUMBER			SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-2-					**MODEL 472 TOP ASSEMBLY .....**	**X**
53	P	068747			STIRRUP, Converge Heel	2
54	P	069341			RIVET, Oval Head, 1/4 x 1-3/16 Long	2
55	P	066608			PLUG, Hole, 3/4"	2
56	P	062377			PIN, Self Locking	2
57	P	031110			PIN, Spring, 3/16" x 1.00" Long	2
58	P	069337			PIN, Self Locking	2
59	P	068751			ASSEMBLY, Heel Stirrup Slide	2
60	P	069135			KNOB, Pivot Locking	2
61	P	066540			BUMPER, Molded Plastic Corner	2
62	P	067292			SCREW, Button Head Socket, 5/16-18 x 3/4" Long	2

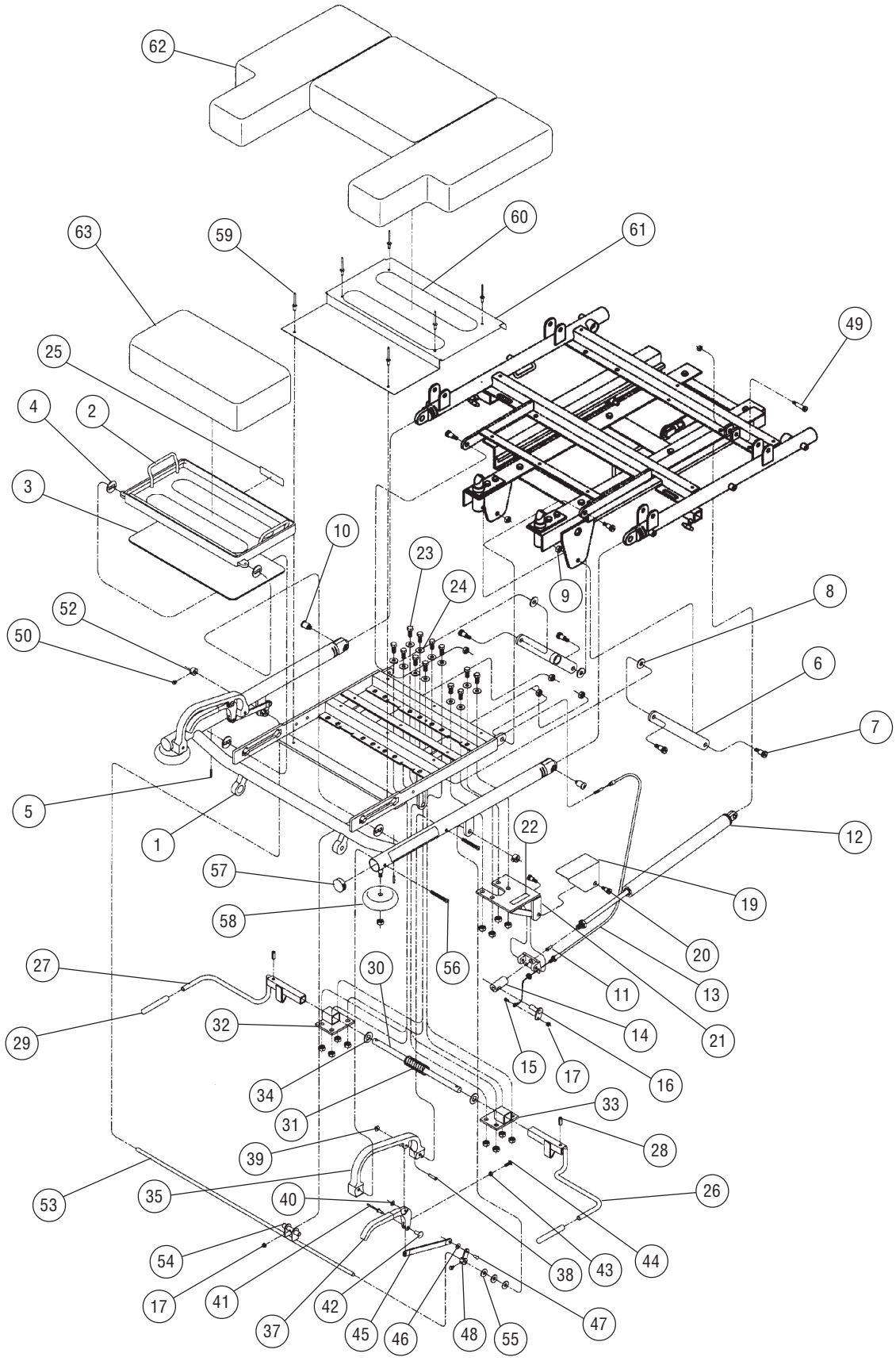

Figure 6-3. Model 472 Foot Section Assembly

FIG. & ITEM NO.	PART NUMBER			SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-3-					**MODEL 472 FOOT SECTION ASSEMBLY**	X
1	P	068758			WELDMENT, Foot Section	1
2	P	068060			ASSEMBLY, Foot Rest	1
3	P	068113			MAT, Foot Rest	1
4	P	068063			WASHER, Special Nylon	4
5	P	061458			PIN, Spring, 1/8 x 3/4" Long	2
6	P	066685			ASSEMBLY, Pivot Link	2
7	P	067455			BOLT, Shoulder, 3/8" x 1/2" Long	6
8	P	031075			WASHER, Nylon, 3/8"	4
9	P	031055			NUT, Lock, 5/16-18	20
10	P	031036			SCREW, Oval Head Pivot	2
11	P	061153			PIN, Actuator	1
12	P	068501			SPRING, 200 Newton Double Locking Gas	1
13	P	066573			CABLE, Right Activator	1
14	P	065603			CHAMBER, Trigger	1
15	P	061870			SCREW, Button Head Socket, #10-24 x 3/8" Long	1
16	P	066562			ASSEMBLY, Activator	1
17	P	031412			NUT, Lock, #10-24	2
18	P	066572			MOUNT, Gas Spring	1
19	P	068764			COVER, Slide Pivot	1
20	P	035116			BOLT, Shoulder, 5/16" x 3/8" Long	2
21	P	069161			SUPPORT, Lock, Right	1
22	P	068475			TAPE, Double Sided, 2.0" x 1/2"	1
23	P	031010			SCREW, Hex Head Cap, 5/16-18 x 3/4" Long	12
24	P	031076			WASHER, SAE Flat, 1/4"	12
25	P	061141			LABEL, Foot Rest Warning	1
26	P	068778			ASSEMBLY, Foot Lock, Right	1
27	P	068780			ASSEMBLY, Foot Lock, Left	1
28	P	031312			PIN, Spring, 1/4" x 3/4" Long	2
29	P	066688			CAP, Vinyl	2
30	P	068765			CONNECTOR, Long Handle	1
31	P	066669			SPRING, Foot Lock	1
32	P	068781			SUPPORT, Foot Lock	2
33	P	066713			LABEL, Foot Operation	2
34	P	055119			WASHER, Nylon, 1.00" x 1/2" x 1/16"	2
35	P	069145			CASTING, Grasp Handle ,Left	1
36	P	069146			CASTING, Grasp Handle, Right	1
37	P	066531			HANDLE, Foot Section Activating	2
38	P	066548			PIN, Clevis, 3/16" x 7/8"	2
39	P	068549			NUT, Pal Cap, 3/16"	2
40	P	066529			WASHER, Wave Spring, 3/16"	2
41	P	000794			RIVET, Pop, 3/16"	8
42	P	062627			RIVET, Blind	2
43	P	031052			NUT, Free Thread, #10-24	2
44	P	061159			SCREW, Truss Head Machine, #10-24 x 5/8" Long	2
45	P	069142			LINK, Lift Handle	2
46	P	062126			WASHER, Nylon, 3/16" x 1/2"	2
47	P	062122			RIVET, Tubular, 3/16" x 1/4"	2
48	P	069143			LINK, Stop Collar	2
49	P	065561			BOLT, Shoulder, 5/16" x 1.00" Long	1
50	P	069339			SCREW, Hex Head Cap, #10-32 x 1/4" Long	4
51	P	069335			SCREW, Round Head Nylon, 1/4-20 x 3/8" Long	2
52	P	068378			COLLAR, Stop, 5/16"	2

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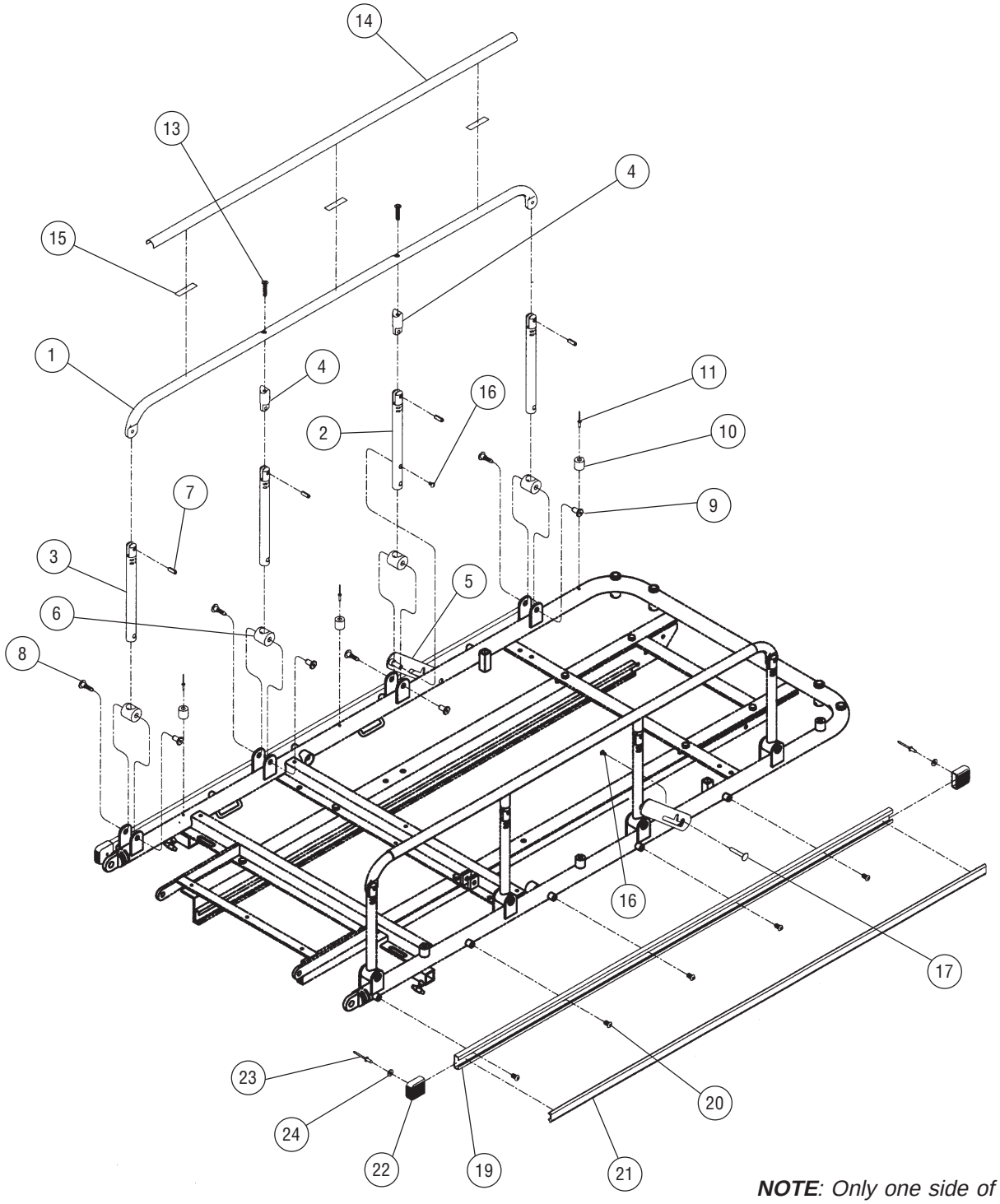
FIG. & ITEM NO.	PART NUMBER			SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-3-					**MODEL 472 FOOT SECTION ASSEMBLY .....**	**X**
53	P	069112			ASSEMBLY, Connecting Rod	1
54	P	069163			ROD, Cable Pull	1
55	P	065688			WASHER, Nylon, 5/16" x 3/4"	6
56	P	066698			SCREW, Button Head Socket, 1/4-20 x 2.00" Long	4
57	P	069172			PLUG, End Cap	2
58	P	067462			BUMPER, Colson Corner	2
59	P	031184			RIVET, Pop, 3/16"	2
60	P	031212			HOOK, Velcro, 2.00" x 12.00"	4
61	P	068759			COVER, Foot Sectionr	1
62	P	069108			PAD, Thigh Section	1
63	P	069109			PAD, Foot Section	1
64	P	067993			WASHER, Nylon 1/4"	1



***NOTE**: Only one side of rail and one side of the bumpers are shown for clarity, the bill of material reflects parts required for a compete unit.*

Figure 6-4. Model 472 Rail Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-4-			**MODEL 472 RAIL ASSEMBLY**	**X**
1	P 067812		TUBE, Horizontal, 4 Leg Rail	2
2	P 069121		ASSEMBLY, Lock Leg	2
3	P 069119		ASSEMBLY, Rail Leg	6
4	P 035381		HINGE, Male Tube	4
5	P 069152		LATCH, Left Rail	1
6	P 035137		ROCKER	8
7	P 031312		PIN, Spring, 1/4" x 1.00"	8
8	P 069155		BOLT, Joint Connector	8
9	P 069154		NUT, Joint Connector	8
10	P 066611		STOPPER, Rail	6
11	P 066615		RIVET, Pop, 1/8"	6
12	P 068380		TAPE, Polyethelene (Not Shown)	4
13	P 031038		SCREW, Oval Head Phillips, 1/4-20 x 1/25" Long	4
14	P 067811		EXTRUSION, Rail Cap	2
15	P		TAPE, Double Sided, 1/2" x 2.00"	6
16	P 061196		SCREW, Truss Head Machine, #10-24 x 3/8" Long	4
17	P 069150		PIN, Rail Latch Lock	2
18	P 096153		LATCH, Right Rail	1
19	P 069118		CHANNEL, Rail Bumper	2
20	P 055646		SCREW, Button Head Socket, 5/16 18 x 1/2" Long	10
21	P 069177		EXTRUSION, Bumper, Red	2
22	P 066543		CAP, Brake Pedal, Red	4
23	P 000794		RIVET, Pop, 3/16"	4
24	P 031074		WASHER, Flat, #10	4

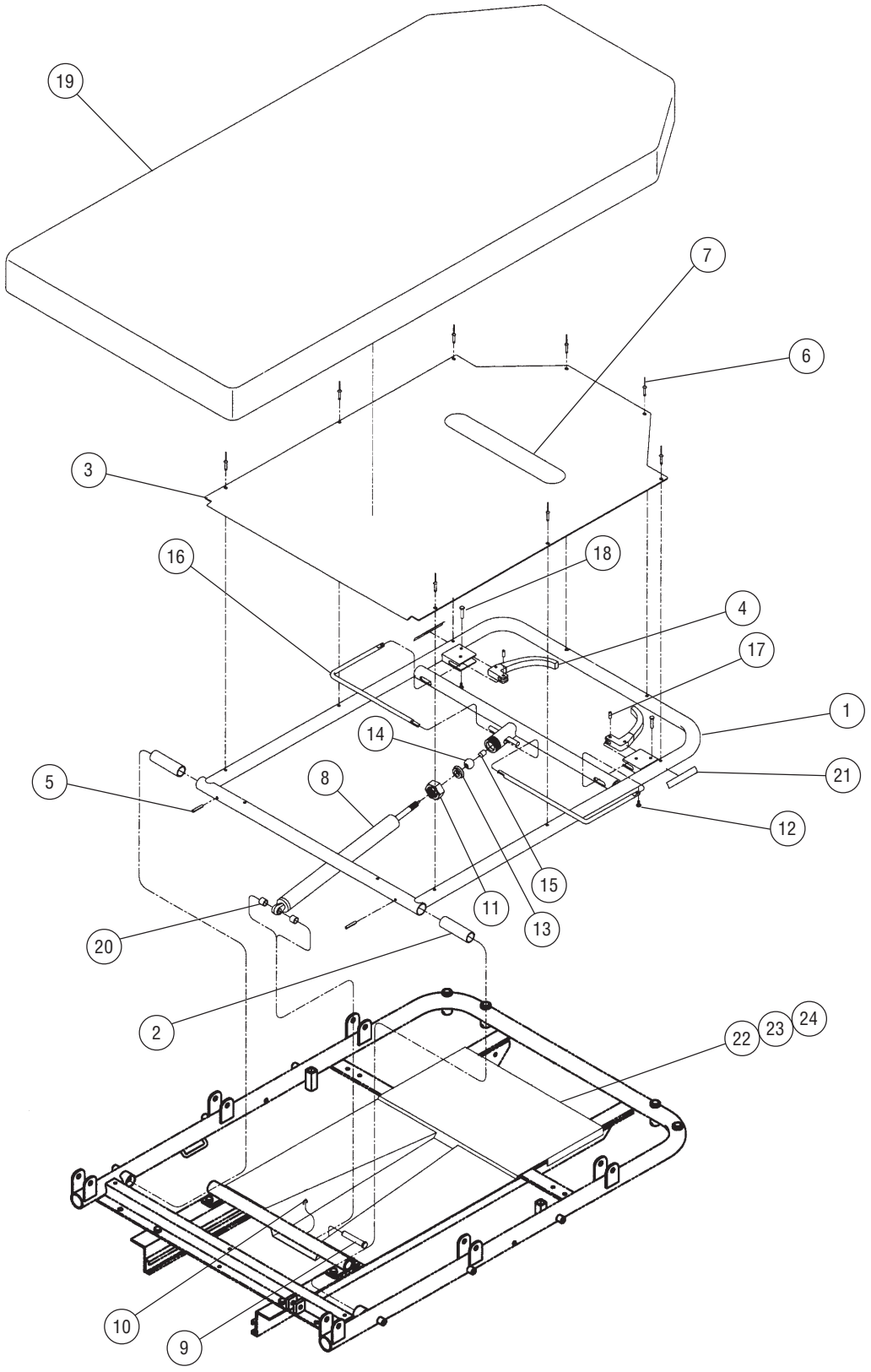
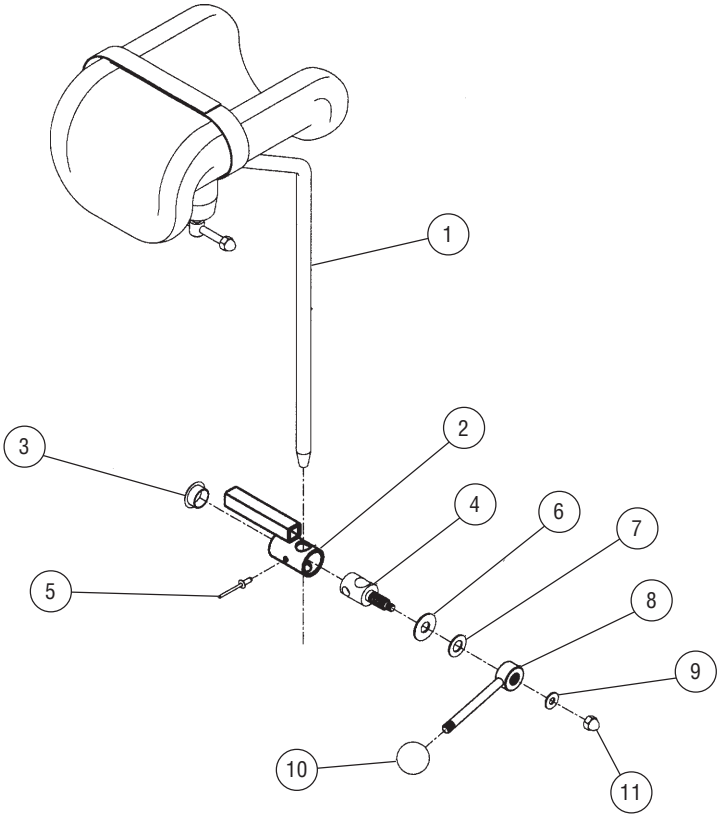


Figure 6-5. Model 472 Fowler Assembly

FIG. & ITEM NO.	PART NUMBER			SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-5-					**MODEL 472 FOWLER ASSEMBLY**	**X**
1	P	069123			ASSEMBLY, Fowler Frame	1
2	P	066696			PIN, Fowler Hinge	2
3	P	066546			SHEET, Fowler Cover	1
4	P	066530			HANDLE, Fowle	2
5	P	031118			PIN, Spring, 3/16" x 1.0"	2
6	P	000794			RIVET, Pop, 3/16"	8
7	P	031212			HOOK, Velcro	1
8	P	067287			SPRING, Gas	1
9	P	067287			PIN, Gas Spring Hinge	1
10	P	031137			RING, Retaining, 3/8"	1
11	P	068437			NUT, Gas Spring	1
12	P	031186			RIVET, Stop	2
13	P	068436			RETAINER, Ball	1
14	P	068438			BALL, Pivot	1
15	P	068441			PIN, Actuating	1
16	P	068435			ROD, Release	2
17	P	066547			PIN, Straight, 3/16" x 1/2"	2
18	P	066548			PIN, Clevis, 3/16" x 7/8"	2
19	P	069107			PAD, Back	2
20	P	069116			SPACER, Gas Spring Pivot	2
21	P	062654			LABEL, Fowler Release	2
22	P	069165			COVER, Under Fowler	1
23	P	061155			HOOK, Velcro,1.0" x 1.0" (Not Shown)	8
24	P	061154			PILE, Velcro, 1.0" x 1.0" (Not Shown)	8



***NOTE**: Only one accessory adaptor and one leg holder is shown for clarity. The bill of material reflects parts required for a compete unit.*

***NOTE**: Accessory number 00V16L, consists of only Item 1, there is no breakdown and accessory number 00C16M consists of Items 2 thru 11.*

Figure 6-6. Leg Holder & Mounting Adaptor Assembly

FIG. & ITEM NO.		PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-6-		**00C16L**			**LEG HOLDER ASSEMBLY**	**X**
		00C16M			**MOUNTING ADAPTOR ASSEMBLY**	**X**
1	P	066305			HOLDER, Leg	2
2	P	066753			ADAPTER, Stirrup	2
3	P	062967			PLUG, Tube End	2
4	P	015233			PLUNGER, Accessory Adapter	2
5	P	000794			RIVET, Pop, 3/16"	2
6	P	066033			WASHER, Flat, 7/16"	2
7	P	055119			WASHER, Nylon, 1/2" x 1.00"	2
8	P	015257			HANDLE, Knob	2
9	P	031076			WASHER, Flat, 1/4"	2
10	P	040603			KNOB, Ball	2
11	P	031060			NUT, Acorn, 5/16-24	2

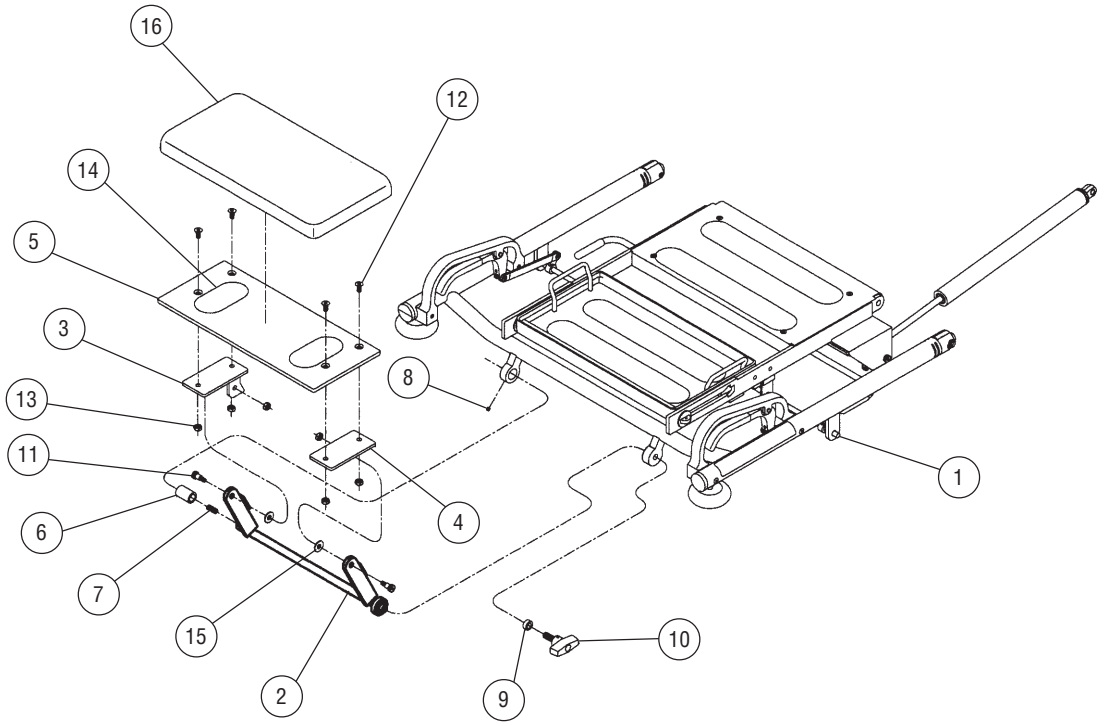


Figure 6-7. Foot Extension Assembly

FIG. & ITEM NO.		PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-7-		**069181**			**FOOT EXTENSION ASSEMBLY**	**X**
1					SECTION, Model 472 Foot	
2	P	069139			ASSEMBLY, Extension Arm	1
3	P	069166			ASSEMBLY, Extension Pivot Plate, Right	1
4	P	069167			ASSEMBLY, Extension Pivot Plate, Left	1
5	P	069169			BOARD, Extension	1
6	P	068620			CAP, End	1
7	P	052049			SPRING	1
8	P	031102			SCREW, Set, 1/4-20 x 1/4" Long	1
9	P	068617			SPACER, Knob	1
10	P	068628			T-KNOB, 2.00"	1
11	P	066689			BOLT, Shoulder, 5/16" x 1/2" Long	2
12	P	031320			SCREW, Flat Socket Head, 1/4-20 x 3/4" Long	4
13	P	031055			NUT, Lock, 1/4 20	6
14	P	061061			HOOK, Velcro, 4"	2
15	P	031100			WASHER, Nylon, 5/16" ID x 3/4" OD	2
16	P	069136			PAD, Foot Extension	1

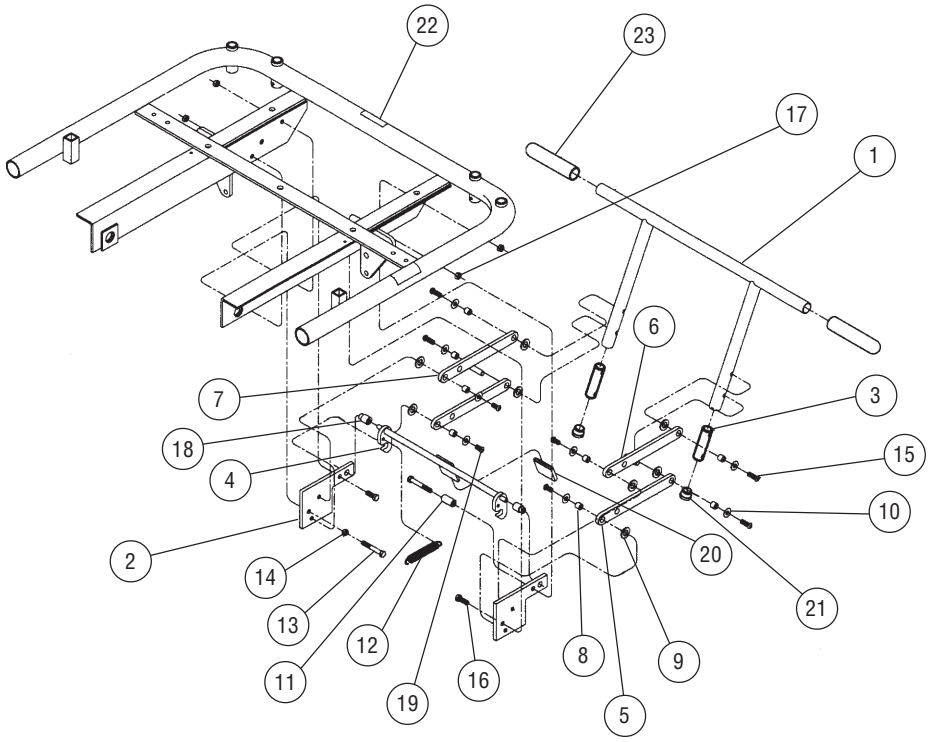


Figure 6-8. Folding Push Handle Assembly

FIG. & ITEM NO.		PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-8-		**0000PB**			**FOLDING PUSH HANDLE ASSEMBLY**	**X**
1	P	067164			ASSEMBLY, Push Bar Handle	1
2	P	067158			PLATE, Push Bar Mounting	2
3	P	067169			PLUG, Push Bar Handle	2
4	P	067156			ASSEMBLY, Push Bar, Latch	1
5	P	067160			LINK, Push Bar	2
6	P	067162			ASSEMBLY, Push Bar Link, Left	1
7	P	067161			ASSEMBLY, Push Bar Link, Right	1
8	P	067168			BUSHING, Push Bar Link	8
9	P	035115			WASHER, Nylon	8
10	P	031364			WASHER, SAE Flat, 1/4"	8
11	P	067155			STOP, Cam	1
12	P	066603			SPRING, Latch	1
13	P	031412			SCREW, Hex Head Cap, 1/4-20 x 1-3/4" Long	2
14	P	031054			NUT, Free Thread, 1/4-20	1
15	P	062038			SCREW, Button Head Socket, 1/4-20 x 3/4" Long	4
16	P	031337			SCREW, Hex Head Cap, 1/4-20 x 3/4" Long	2
17	P	031055			NUT, Lock, 1/4-20	4
18	P	067159			BUSHING, Push Bar Latch	2
19	P	031325			SCREW, Button Head Socket, 1/4-20 x 1/2" Long	4
20	P	066613			CAP, Rail Latch	1
21	P	031175			BUTTON, Plug	2
22	P	066716			LABEL, Rail Release	1
23	P	067144			GRIP, Push Bar Hand	2

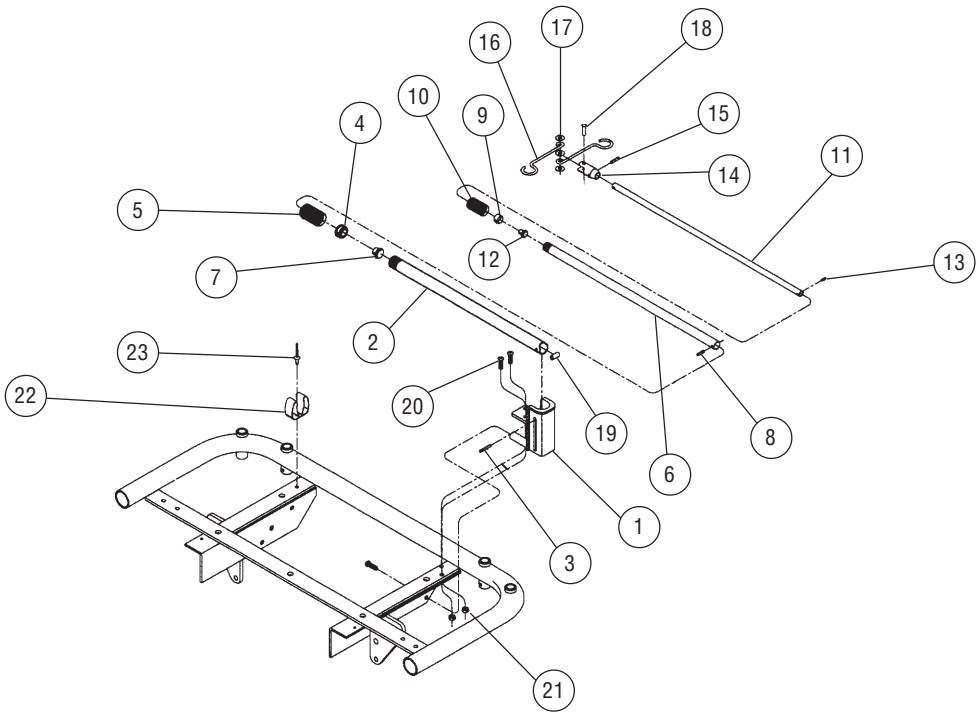


Figure 6-9. 3 Section Mounted I.V. Rod Assembly

FIG. & ITEM NO.		PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-9-		**066725**			**3 SECTION MOUNTED I.V. ROD ASSEMBLY**	**X**
1	P	066727			ASSEMBLY, I.V. Rod Support And Mount	1
2	P	066731			TUBE, Short Outside	1
3	P	031438			PIN, Spring, 3/16 x 1-1/4" Long	1
4	P	066014			BUSHING, Large Screw Collar Squeeze	1
5	P	066013			COLLAR, Large Screw	1
6	P	066732			TUBE, Short Slide	1
7	P	066015			GLIDE, Outside Cap	1
8	P	031314			PIN, Spring, 3/16" x 3/4"	1
9	P	030209			BUSHING, Screw Collar Squeeze	1
10	P	030207			COLLAR, Screw	1
11	P	066733			TUBE, Short Inside	1
12	P	030176			GLIDE, Inside Cap	1
13	P	065605			PIN, Spring, 1/8" x 1/2"	1
14	P	062328			CAP, Top Ear	1
15	P	031110			PIN, Spring, 3/16" x 7/8"	1
17	P	062327			HOOK, Bag	2
18	P	062329			RIVET, Tubular	1
19	P	066734			SPACER, I.V. Rod Pin	1
20	P	062038			SCREW, Lock Button Head Socket, 1/4-20	3
21	P	031055			NUT, Lock, 1/4-20	2
22	P	062008			CLIP, Broom	1
23	P	000794			RIVET, Pop, 3/16"	1

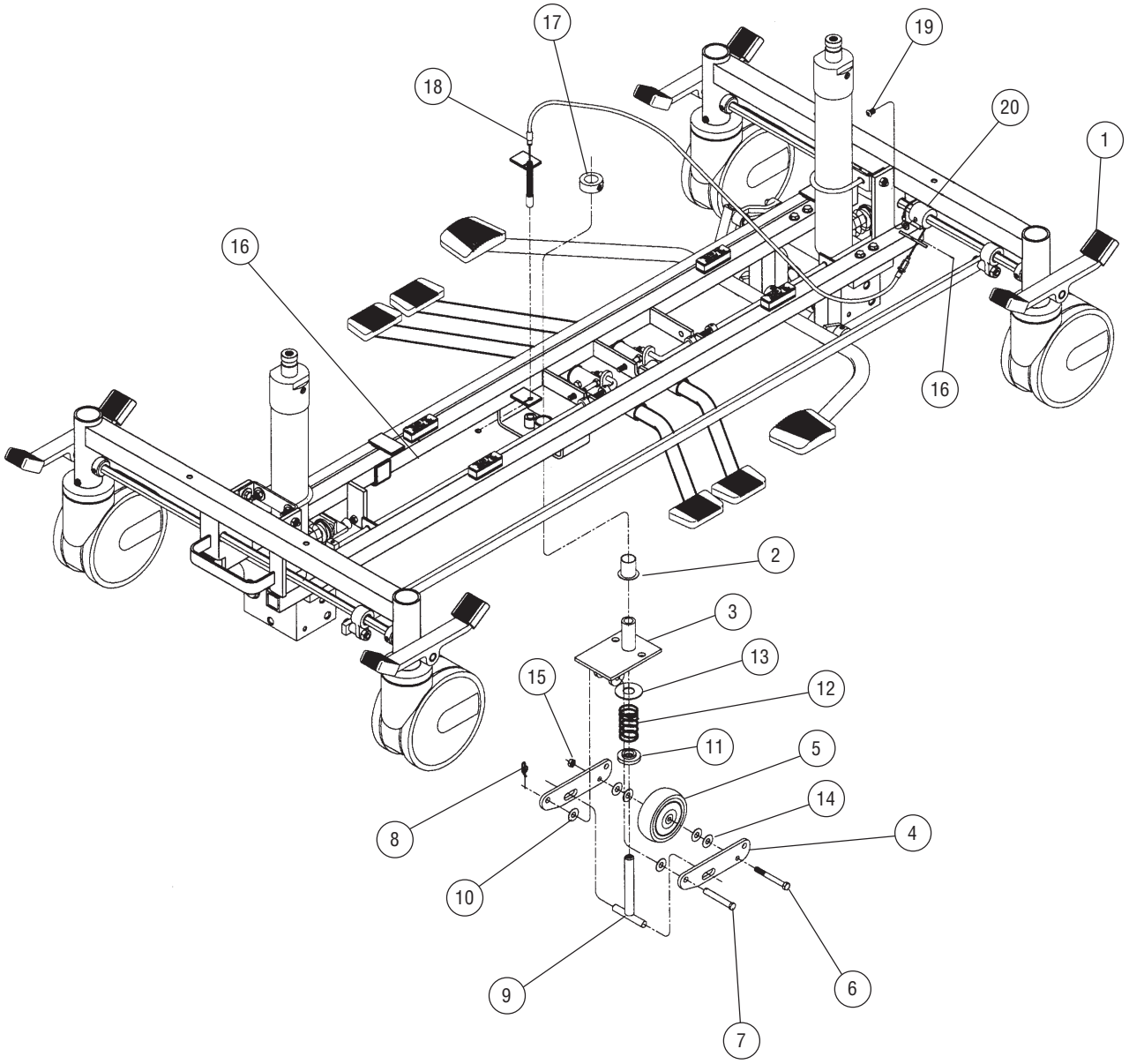


Figure 6-10. 472 Fifth Wheel Center Track Assembly

FIG. & ITEM NO.		PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-10-		**069060**			**472 FIFTH WHEEL CENTER TRACK ASSEMBLY**	**X**
1	P				ASSEMBLY, Horizon Base	
2	P	051308			NYLINER, Flange, 3/4" x 1-1/8"	1
3	P	068360			ASSEMBLY, Swivel Bracket	1
4	P	068429			PLATE, 5th Wheel Hinge	2
5	P	069061			WHEEL, 3"	1
6	P	069062			SCREW, Hex Head Cap, M6 x 60 mm Long	1
7	P	068419			PIN, Clevis, 5/16" x 2.0"	1
8	P	068417			CLIP, Rue, 5/16"	1
9	P	068540			ASSEMBLY, Spring Stop	1
10	P	065688			WASHER, Nylon, 5/16"	2
11	P	068416			SPACER	1
12	P	068173			SPRING, 5th Wheel	1
13	P	031077			WASHER, Flat, 1/2" I.D. x 1.063" O.D.	1
14	P	031364			WASHER, 1/4"	4
15	P	069063			NUT, Lock, M6	1
16	P	062640			RING, Retaining	2
17	P	068464			COLLAR, 3/4"	1
18	P	068430			ASSEMBLY, 5th Wheel Cable	1
19	P	068544			SCREW, Button Head Socket, 1/4-20 x 3/8" Long	1
20	P	069007			TUBE, Large Cam	1